INFORMATION DISCLOSURE **STATEMENT**

(Use several sheets if necessary)

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Applicants: John R. CARLSON et al.

U.S. PATENT DOCUMENTS	
S,786,203 07/28/98 Lovenberg et al. 435 252.3 01/31/	
5,993,778 11/30/99 Firestein et al. 424 9.1 7/10 5,772,983 6/30/98 O'Connell et al. 424 9.2 10/11 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Ayer et al., 1991, Drosophila, Proc. Natl. Acad. Sci. USA, 88, 5467-5471 Clyne et al., 1999, Neuron, 22, 339-347 International Search Report, PCT/US00/01823, September 7, 2000 (7 pages) Written Opinion, PCT/US00/01823, May 4, 2001 (5 pages) Boeckh et al., 1996, Pesticide Science, 48:359-373 Bogner et al., 1999, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Neuron, 22:327-338 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1998, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Heland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1998, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1999, Neurosci., 17:1616-1624 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1999, Cell, 96:725-736 Voshikawa et al., 1999, J. Fiol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	Date
S.772,983 6/30/98 O'Connell et al. 424 9.2 10/11 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Ayer et al., 1991, Drosophila, Proc. Natl. Acad. Sci. USA, 88, 5467-5471 Clyne et al., 1998, Neuron, 22, 339-347 International Search Report, PCT/US00/01823, September 7, 2000 (7 pages) Written Opinion, PCT/US00/01823, May 4, 2001 (5 pages) Boeckh et al., 1996, Pesticide Science, 48:359-373 Bogner et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 25:503-504 Clyne et al., 1999, Neuron, 25:327-338 de Bruyne et al., 1999, Neuronsci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1998, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1999, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1999, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1999, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1999, Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1999, Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1999, Physiol., 180:151-160 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla Störkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-771 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1999, J. Physiol., 42:267-277 Ryba & Tinindelli, 1997, Neuron, 19:371-379 Willschko, 1998, J. Exp. Biol., 199:725-736 Poorks et al., 1998	1995
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Ayer et al., 1991, Drosophila, Proc. Natl. Acad. Sci. USA, 88, 5467-5471 Clyne et al., 1999, Neuron, 22, 339-347 International Search Report, PCT/US00/01823, September 7, 2000 (7 pages) Written Opinion, PCT/US00/01823, May 4, 2001 (5 pages) Boeckh et al., 1998, Pesticide Science, 48:359-373 Bogner et al., 1992, J. Chem. Ecology, 18:427-439 Cao et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1999, Neuron, 25:503-504 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Helkmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1996, Nn. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Helkmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1998, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1998, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1999, Genetics, 136:1087-1096 McKenna et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tinindelli, 1997, Neuron, 19:371-379 Willschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, J. Riech. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	/97
Ayer et al., 1991, Drosophila, Proc. Natl. Acad. Sci. USA, 88, 5467-5471 Clyne et al., 1999, Neuron, 22, 339-347 International Search Report, PCT/USO0/01823, September 7, 2000 (7 pages) Written Opinion, PCT/USO0/01823, May 4, 2001 (5 pages) Boeckh et al., 1996, Pesticide Science, 48:359-373 Bogner et al., 1992, J. Chem. Ecology, 18:427-439 Cao et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1998, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1998, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla: Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Eps. Biol., 199:113-119 Vosshall et al., 1999, J. Riol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	3/95
Clyne et al., 1999, Neuron, 22, 339-347 International Search Report, PCT/US00/01823, September 7, 2000 (7 pages) Written Opinion, PCT/US00/01823, May 4, 2001 (5 pages) Boeckh et al., 1996, Pesticide Science, 48:359-373 Bogner et al., 1992, J. Chem. Ecology, 18:427-439 Cao et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1999, Neuron, 25:503-504 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurosci., 19:4839-4846 Lilly et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Cilyne et al., 1996, J. Insect Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1998, Diol. Chem., 269:16340-16347 Willschko, 1998, J. Rev. Biol., 199:113-119 Vosshall et al	
International Search Report, PCT/US00/01823, September 7, 2000 (7 pages) Written Opinion, PCT/US00/01823, May 4, 2001 (5 pages) Boeckh et al., 1996, Pesticide Science, 48:359-373 Bogner et al., 1992, J. Chem. Ecology, 18:427-439 Cao et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurosci., 19:439-4846 Lilly et al., 1994, Genetics , 136:1087-1096 McKenna et al., 1994, Genetics , 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Trindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1999, Trends in Genetics, 14(6): 248-250.	
Written Opinion, PCT/US00/01823, May 4, 2001 (5 pages) Boeckh et al., 1996, Pesticide Science, 48:359-373 Bogner et al., 1992, J. Chem. Ecology, 18:427-439 Cao et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 — Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurosci., 19:439-4846 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla Störtkuhl et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1999, Trends in Genetics, 14(6): 248-250.	
Boeckh et al., 1996, Pesticide Science, 48:359-373 Bogner et al., 1992, J. Chem. Ecology, 18:427-439 Cao et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, J. Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics , 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Villschko, 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Willschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Bogner et al., 1992, J. Chem. Ecology, 18:427-439 Cao et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, J. Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1999, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics., 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, Trends in Genetics, 14(6): 248-250.	
Cao et al., 1998, Proc. Natl. Acad. Sci. USA, 95:11987-11992 Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, J. Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1999, J. Neurosci., 17:1616-1624 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation of the state of the	
Carlson, 1996, Trends Genet., 12:175-180 Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, J. Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1996, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1996, J. Neurosci., 13:43-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation of the state	
Carlson, 2000, Neuron, 25:503-504 Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, J. Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla Störtkuhl et al., 1994, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Clyne et al., 1997, Invert. Neurosci., 3:127-135 Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, J. Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1998, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation of the stal., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Wittschko, 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wittschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Clyne et al., 1999, Neuron, 22:327-338 de Bruyne et al., 1999, J. Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics , 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
de Bruyne et al., 1999, J. Neurosci., 19:4520-4532 Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1999, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verla Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics , 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 C Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Dryer & Berghard, 1999, Trends Pharmacol. Sci., 20:413-417 Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci, 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, Trends in Genetics, 14(6): 248-250.	
Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci, 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Gao & Chess, 1999, Genomics, 60:31-39 Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci, 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Hekmat-Scafe et al., 1996, Ann. NY Acad. Sci., 855:311-315 Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci., 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, Trends in Genetics, 14(6): 248-250.	
Grant et al., 1996, Physiol. Entomol., 21:59-63 Hekmat-Scafe et al., 1997, J. Neurosci, 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation of Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Hekmat-Scafe et al., 1997, J. Neurosci, 17:1616-1624 Hekmat-Scafe et al., 1996, Ciba Found. Symp., 200:285-296 (discussion 296-301) Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Trindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1998, Trends in Genetics, 14(6): 248-250.	
Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Hefland & Carlson, 1989, Proc. Natl. Acad. Sci. USA, 86:2908-2912 Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Hing & Carlson, 1996, J. Neurobiol., 30:454-464 Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation (1994) 351-377, Hansson (editor), Springer-Verlation (1995) 351-377, Hansson (editor), Springer-Verlation (1996) 351-377, Hansson (editor), Springer-Verlation (1996) 351-377, Hansson (editor), Springer-Verlation (1996) 484-4846 Lilly et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1999, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Karg & Suckling, 1999, INSECT OLFACTION (1999) 351-377, Hansson (editor), Springer-Verlation Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1998, Trends in Genetics, 14(6): 248-250.	
Störtkuhl et al., 1999, J. Neurosci., 19:4839-4846 Lilly et al., 1994, Genetics , 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	<u> </u>
Lilly et al., 1994, Genetics, 136:1087-1096 McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
McKenna et al., 1994, J. Biol. Chem., 269:16340-16347 Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Mombaerts, 1999, Science, 286:707-711 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:151-160 Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Riesgo-Escovar et al., 1997, J. Comp Physiol., 180:143-150 Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Renou et al., 1996, J. Insect Physiol., 42:267-277 Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Ryba & Tirindelli, 1997, Neuron, 19:371-379 Wiltschko, 1996, J. Exp. Biol., 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Wiltschko, 1996, <i>J. Exp. Biol.,</i> 199:113-119 Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, <i>J. Biol. Chem.,</i> 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Vosshall et al., 1999, Cell, 96:725-736 Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Yoshikawa et al., 1992, J. Biol. Chem., 267:16613-16619 Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
Doerks et al., 1998, Trends in Genetics, 14(6): 248-250.	
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Voet et al., 1990, John Wiley & Sons., Inc., pgs. 126-128 and 228-234.	
Celniker et al., 1998, Drosophila melanogaster (P! DS05342 (D92)) DNA Sequence, complete	
sequence. Accession Number AC 004121.	_
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